

UT377A

Mini Wood Moisture Meter

User Manual

I. Introduction

UT377A is a stable, safe and reliable wood moisture meter.

Features:

- Wood type selection
 - Temperature compensation
 - Power saving
 - High accuracy
 - Quick response
 - Wide scope of application: raw material, papermaking, furniture, etc.
- Warning: For safety and accuracy, please read this manual before use.

II. Open Box Inspection

Open the packing box and take out the meter. Please check if the following items are deficient or damaged. Please contact your supplier immediately if any item is deficient or damaged.

1. Plastic holder-----1 set
2. User Manual-----1 pcs
3. Battery 1.5V AAA-----3 pcs

III. Safety instructions

Warning:

To avoid injury, keep this meter unaccessible to the minor.

The meter complies with standards: GB/T1931-2009 and JJG 986-2004

1. Before use, inspect the meter for any damage. Pay particular attention to the insulation layer and the display screen. Do not use the meter if it is not working properly.
2. Follow the operation instructions.
3. Do not change the internal circuit of the meter.
4. When low power symbol  appears, please replace the battery. If the meter is not used for a long time, please remove the battery.
5. Do not use or store the meter in the environments of high temperature, high humidity, flammable, explosive and strong magnetic field environments.
6. Please use soft cloth and detergent to clean the case. Do not use abrasant and solvent
7. The product has CE certification.

IV. Structure

- ① Sensor protection cover
- ② Probe cap
- ③ Measuring probes
- ④ Temperature sensor
- ⑤ Display screen
- ⑥ Functional buttons

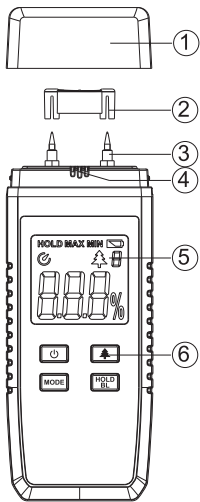


Figure 1

V. Symbols

- ① Auto power off
- ② Data hold
- ③ Maximum value
- ④ Minimum value
- ⑤ Low power
- ⑥ Wood symbol
- ⑦ Wood type
- ⑧ Measure unit

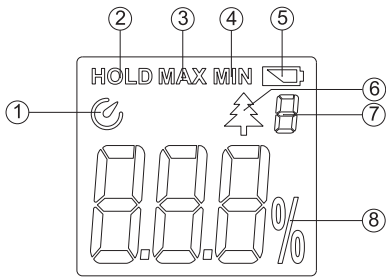


Figure 2

VI. Buttons and settings

1. : Power ON /OFF
1) Short press  to power ON.
2) Short press  again to power OFF

2. :Select wood type
Short press this button to cycle switch the wood types. (refer to table 2: wood types)
Default mode: type 3.

Notes:

Moisture content varies according to climate, geography, plant location, and even different parts of the same tree.

3. : select measurement modes
Short press: switch from MAX/MIN or regular measurement.
Long press this button to turn ON/OFF auto power OFF function,  appears to indicate auto power off. Under this mode, the meter will automatically power off without any operation for about 5 mins.
4. :Data hold / Backlight
Short press to turn ON/OFF hold function. Long press to turn ON/OFF backlight.

VII. Operation instructions

1. Short press  to turn on the device
2. Press  button to select wood type.(Refer to VI- 2)
3. Take off the protection cover and probe cap. To avoid missing parts, insert the cap into the cover (see figure3)
- 4.Insert the probe vertically into the wood to be measured. The insert depth is shown as Figure 4.

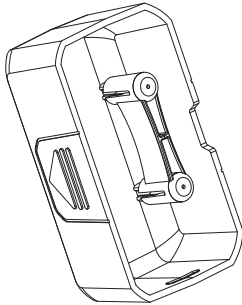


Figure 3

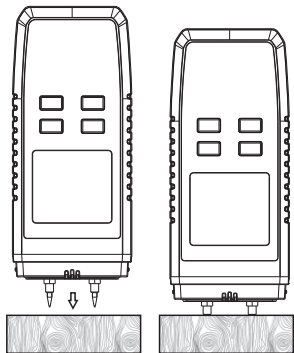


Figure 4

- 5. The reading is the absolute value of moisture content
- 6. Press  to measure maximum value or minimum value
- 7. Press  button to select backlight or data holding.
(Refer to VI- 4 for the detail)

Notes:
To avoid breaking the probe, please gently shake and loose it along the wood grain direction when pulling out the meter. (Figure 5)

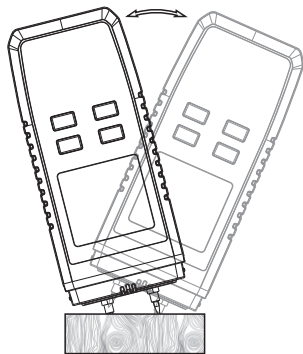


Figure 5

VIII. Performance specification

1.Technical specifications

Function	Range	Resolution	Accuracy	Remark
Moisture content	2.0~40.0%	0.1%	±2.0%	Type 1 : 2.0%~25.0% Type 2 : 3.0%~30.0% Type 3 : 4.0%~35.0% Type 4 : 5.0%~40.0%
Probe pull and plug	≥1000 times	/	/	Reliability test
Ambient temperature (calibration)	-10~60℃ (14~140℉)	/	/	Correct the accuracy influenced by ambient temperature

2. General specifications

- a. LCD display, maximum display: 99.9.
- b. Low power symbol: 
- c. Update rate: 0.5 second
- d. Sensor type: resistance type sensor
- e. Drop test: 1 meter
- f. Battery :1.5 V AAA * 3
- g. Dimension: 136 mm *54 mm * 28 mm
- h. Weight : about 130 g

3. Operating environment

- a. Indoor use
- b. Altitude: 2000 meters (maximum)
- c. Pollution class: Level 2
- d. Operating temperature: 0℃~40℃ (32~104℉)
- e. Operating humidity: ≤ 80% RH (-4~140℉)

4. Electric specifications

- a. Accuracy: ±2.0%
- b. Ambient temperature: 23℃ ±5℃ (64.4~82.4℉)
- c. Ambient humidity: 75% RH

5. General maintenance

- Warning:
- To avoid false reading and injury, please do not open the meter cover.
- a. The maintenance and service of the meter must be implemented by qualified professional personnel or the designated departments.
 - b. Use dry cloth to clean the cover, do not use the detergent containing solvent and abradant.

6. Battery installation and Replacement

- The meter uses three AAA 1.5V alkaline batteries for operation.
- To install or replace the battery:
- a. Unscrew the battery cover, remove the cover and install new batteries ensuring that the correct polarity is observed.
 - b. Use the batteries of the same type
 - c. Replace the battery and screw up.

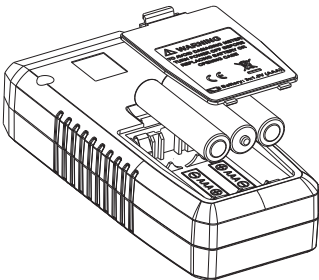


Figure 6

7. Wood types

Tree species	Wood type	Tree species	Wood type
Rhodes teak	1	Ash wood	3
White ormosia	1	Light wood	3
Brazil walnut tree	1	Sandalwood	3
Walnut	2	Elm	3
Cloning wood	2	Yunnan stone Catalpa	3
Poplar	2	Hemlock spruce	3
Teak	2	Gurjun	3
Fir wood	3	Birch	4
Douglas fir	3	Masson Pine	4
Lauan	3	Larch	4
Channel willow	3	Basswood	4
White fir	3	Chilean Pine	4
Oak	3	White pine	4
Acer mono	3	Ah East	4

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Warnings and safety information

For all information on handling and use, please refer to the instruction manual or product label. Before using the products, read its contents and follow the instructions contained therein.

Also read the following information before use:

Safety of use

1. Use measuring tools for their intended purpose. Do not use measuring tools for tasks for which they were not designed to avoid damage or erroneous measurement results.
2. Always make sure a tool is in good working condition before using it. Damaged tools, such as cracked cases or damaged displays, can lead to incorrect measurements or risk of accidents.
3. Calibrate measuring tools regularly to ensure accuracy and reliability of measurements. Incorrectly calibrated devices can lead to erroneous results.

Precautions

1. Use appropriate eye protection, especially when working with measuring tools that may emit radiation.
2. Keep measuring tools away from children and untrained people to prevent accidental damage or misuse.
3. Avoid using measuring tools in extreme conditions of temperature, humidity or in an atmosphere with a high concentration of dust, which can affect their accuracy and functionality.
4. Be careful not to damage delicate measuring components (e.g., sensors, probes) when working with measuring tools.

Safe use

1. Always make sure that the measuring tool is properly aligned and fixed to avoid measurement errors or damage.
2. Use measuring tools only in designated areas that provide adequate stability and minimize the risk of accidents, such as slippery or uneven surfaces.
3. Never take measurements on live components or in conditions that may pose a safety hazard.

Rules for use in appropriate conditions

1. Store measuring tools in a dry, cool place, away from moisture and direct sunlight, which can damage the devices or affect their accuracy.
2. When using measuring tools, make sure they are well seated and will not be subjected to shocks or impacts that can damage them.
3. Avoid using measuring tools in areas with extreme conditions, such as high vibration, hot surfaces, dust, or moisture, unless the tool is rated for this by the manufacturer.

Maintenance instructions

1. Regularly check the condition of measuring tools, especially measuring components (e.g., sensors, probes, displays) and batteries.
2. Follow the cleaning instructions provided by the manufacturer. Use appropriate cleaning materials (e.g., soft cloths) to avoid damaging delicate components.
3. Calibrate measuring tools regularly, according to the manufacturer's recommendations, to maintain measurement accuracy.

Safe disposal

1. Dispose of used or damaged measuring tools in accordance with current environmental and electronics recycling regulations.
2. Do not dispose of measuring tools in regular waste containers, as they may contain elements harmful to the environment.
3. Contact local authorities or recycling companies for information on proper disposal of used measuring tools.

Statement of compliance

The products have been designed in accordance with the safety requirements of **Regulation (EU) 2023/988** on general product safety, ensuring their compliance with applicable standards for the safety and health protection of users.

EU REP

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